

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/612,852

DATE: 05/21/2001
TIME: 11:54:00

Input Set : A:\Pto.amc
Output Set: N:\CRF3\05212001\I612852.raw

3 <110> APPLICANT: Curiel, David T.
4 Krasnykh, Victor N.
6 <120> TITLE OF INVENTION: Modified Adenovirus Containing A Fiber
7 Replacement Protein
W--> 8 <130> FILE REFERENCE: D6070CIP
W--> 9 <140> CURRENT APPLICATION NUMBER: US/09/612,852
9 <141> CURRENT FILING DATE: 2000-07-10
10 <150> PRIOR APPLICATION NUMBER: US 09/250,580
11 <151> PRIOR FILING DATE: 1999-02-16
12 <150> PRIOR APPLICATION NUMBER: US 60/074,844
13 <151> PRIOR FILING DATE: 1998-02-17
W--> 14 <160> NUMBER OF SEQ ID: 14
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 40
18 <212> TYPE: DNA
19 <213> ORGANISM: artificial sequence
W--> 20 <220> FEATURE:
21 <221> NAME/KEY: primer_bind
22 <223> OTHER INFORMATION: Forward primer FF.F used to amplify segment of the T4
23 fibritin gene encoding amino acids Ser-229 through
24 the carboxy terminal Ala-487.
W--> 25 <400> SEQUENCE: 1
26 gggacttga cctcacagaa cgttatagt cgttaaatg 40
28 <210> SEQ ID NO: 2
29 <211> LENGTH: 37
30 <212> TYPE: DNA
31 <213> ORGANISM: artificial sequence
W--> 32 <220> FEATURE:
33 <221> NAME/KEY: primer_bind
34 <223> OTHER INFORMATION: Reverse primer FF.R used to amplify segment of the T4
35 fibritin gene, encoding amino acids Ser-229 through
36 the carboxy terminal Ala-487.
W--> 37 <400> SEQUENCE: 2
38 agggcatggc caattttgc cggcgataaa aaggtag 37
40 <210> SEQ ID NO: 3
41 <211> LENGTH: 53
42 <212> TYPE: DNA
43 <213> ORGANISM: artificial sequence
W--> 44 <220> FEATURE:
W--> 45 <221> NAME/KEY:
46 <223> OTHER INFORMATION: synthetic oligo, F5._3Swa.T, for the introduction of
47 SwaI restriction site
W--> 48 <400> SEQUENCE: 3
49 ttggcccat ttaaatgaat cgtttggtt atgtttcaac gtgtttattt ttc 53
51 <210> SEQ ID NO: 4
52 <211> LENGTH: 61
53 <212> TYPE: DNA

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/612,852

DATE: 05/21/2001
TIME: 11:54:00

Input Set : A:\Pto.amc
Output Set: N:\CRF3\05212001\I612852.raw

54 <213> ORGANISM: artificial sequence
W--> 55 <220> FEATURE:
W--> 56 <221> NAME/KEY:
57 <223> OTHER INFORMATION: synthetic oligo, F5._3Swa.B, for the introduction of
58 SwaI restriction site
W--> 59 <400> SEQUENCE: 4
60 aattgaaaaaa taaaacacgtt gaaacataac acaaacgatt catttaatg 50
61 gggccaatat t 61
63 <210> SEQ ID NO: 5
64 <211> LENGTH: 57
65 <212> TYPE: DNA
66 <213> ORGANISM: artificial sequence
W--> 67 <220> FEATURE:
W--> 68 <221> NAME/KEY:
69 <223> OTHER INFORMATION: synthetic oligo, FFBPLL.T
W--> 70 <400> SEQUENCE: 5
71 ggccagggtgg ggcgggttcag gcggagggtgg ctctggcggt ggcggatccg 50
72 gggattt 57
74 <210> SEQ ID NO: 6
75 <211> LENGTH: 57
76 <212> TYPE: DNA
77 <213> ORGANISM: artificial sequence
W--> 78 <220> FEATURE:
W--> 79 <221> NAME/KEY:
80 <223> OTHER INFORMATION: synthetic oligo, FFBPLL.B
W--> 81 <400> SEQUENCE: 6
82 aaatccccgg atccgccacc gccagagcca cctccgcctg aaccgcctcc 50
83 acctgcc 57
85 <210> SEQ ID NO: 7
86 <211> LENGTH: 36
87 <212> TYPE: DNA
88 <213> ORGANISM: artificial sequence
W--> 89 <220> FEATURE:
W--> 90 <221> NAME/KEY:
91 <223> OTHER INFORMATION: synthetic oligo, RGS6H.T
W--> 92 <400> SEQUENCE: 7
93 gatctagagg atcgcacac catcaccatc actaat 36
95 <210> SEQ ID NO: 8
96 <211> LENGTH: 32
97 <212> TYPE: DNA
98 <213> ORGANISM: artificial sequence
W--> 99 <220> FEATURE:
W--> 100 <221> NAME/KEY:
101 <223> OTHER INFORMATION: synthetic oligo, RGS6H.B
W--> 102 <400> SEQUENCE: 8
103 attagtgtat gtatgggtga tgcgatcctc ta 32
105 <210> SEQ ID NO: 9
106 <211> LENGTH: 27
107 <212> TYPE: DNA

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/612,852

DATE: 05/21/2001

TIME: 11:54:00

Input Set : A:\Pto.amc

Output Set: N:\CRF3\05212001\I612852.raw

108 <213> ORGANISM: artificial sequence
W--> 109 <220> FEATURE:
110 <221> NAME/KEY: primer_bind
111 <223> OTHER INFORMATION: primer to PCR amplify FF/6H in pXK.FF/6H
W--> 112 <400> SEQUENCE: 9
113 ccctcatgaa ggcgcgaaga ccgtctg 27
115 <210> SEQ ID NO: 10
116 <211> LENGTH: 27
117 <212> TYPE: DNA
118 <213> ORGANISM: artificial sequence
W--> 119 <220> FEATURE:
120 <221> NAME/KEY: primer_bind
121 <223> OTHER INFORMATION: primer to PCR amplify FF/6H in pXK.FF/6H
W--> 122 <400> SEQUENCE: 10
123 cccaagctta gtgatggta tggat 27
125 <210> SEQ ID NO: 11
126 <211> LENGTH: 8
127 <212> TYPE: PRT
128 <213> ORGANISM: Adenovirus type 5
W--> 129 <220> FEATURE:
130 <221> NAME/KEY: DOMAIN
131 <223> OTHER INFORMATION: the beginning of the third pseudorepeat of the
132 fiber shaft domain
W--> 133 <400> SEQUENCE: 11
134 Gly Asn Thr Leu Ser Gln Asn Val
135 5 8
137 <210> SEQ ID NO: 12
138 <211> LENGTH: 26
139 <212> TYPE: PRT
140 <213> ORGANISM: Phage T4
W--> 141 <220> FEATURE:
142 <221> NAME/KEY: DOMAIN
143 <223> OTHER INFORMATION: the sixth coiled coil segment of the α -helical
144 central domain of the fibritin
W--> 145 <400> SEQUENCE: 12
146 Val Tyr Ser Arg Leu Asn Glu Ile Asp Thr Lys Gln Thr Thr Val
147 5 10 15
148 Glu Ser Asp Ile Ser Ala Ile Lys Thr Ser Ile
149 20 25
151 <210> SEQ ID NO: 13
152 <211> LENGTH: 361
153 <212> TYPE: PRT
154 <213> ORGANISM: artificial sequence
W--> 155 <220> FEATURE:
156 <221> NAME/KEY: CHAIN
157 <223> OTHER INFORMATION: the fiber-fibritin-6H chimera
W--> 158 <400> SEQUENCE: 13
159 Met Lys Arg Ala Arg Pro Ser Glu Asp Thr Phe Asn Pro Val Tyr
160 5 10 15

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/612,852

DATE: 05/21/2001

TIME: 11:54:00

Input Set : A:\Pto.amc

Output Set: N:\CRF3\05212001\I612852.raw

161 Pro Tyr Asp Thr Glu Thr Gly Pro Pro Thr Val Pro Phe Leu Thr
 162 20 25 30
 163 Pro Pro Phe Val Ser Pro Asn Gly Phe Gln Glu Ser Pro Pro Gly
 164 35 40 45
 165 Val Leu Ser Leu Arg Leu Ser Glu Pro Leu Val Thr Ser Asn Gly
 166 50 55 60
 167 Met Ala Leu Lys Met Gly Asn Gly Leu Ser Leu Asp Glu Ala Gly
 168 65 70 75
 169 Asn Leu Thr Ser Gln Asn Val Tyr Ser Arg Leu Asn Glu Ile Asp
 170 80 85 90
 171 Thr Lys Gln Thr Thr Val Glu Ser Asp Ile Ser Ala Ile Lys Thr
 172 95 100 105
 173 Ser Ile Gly Tyr Pro Gly Asn Asn Ser Ile Ile Thr Ser Val Asn
 174 110 115 120
 175 Thr Asn Thr Asp Asn Ile Ala Ser Ile Asn Leu Glu Leu Asn Gln
 176 125 130 135
 177 Ser Gly Gly Ile Lys Gln Arg Leu Thr Val Ile Glu Thr Ser Ile
 178 140 145 150
 179 Gly Ser Asp Asp Ile Pro Ser Ser Ile Lys Gly Gln Ile Lys Asp
 180 155 160 165
 181 Asn Thr Thr Ser Ile Glu Ser Leu Asn Gly Ile Val Gly Glu Asn
 182 170 175 180
 183 Thr Ser Ser Gly Leu Arg Ala Asn Val Ser Trp Leu Asn Gln Ile
 184 185 190 195
 185 Val Gly Thr Asp Ser Ser Gly Gly Gln Pro Ser Pro Pro Gly Ser
 186 200 205 210
 187 Leu Leu Asn Arg Val Ser Thr Ile Glu Thr Ser Val Ser Gly Leu
 188 215 220 225
 189 Asn Asn Asp Val Gln Asn Leu Gln Val Glu Ile Gly Asn Asn Ser
 190 230 235 240
 191 Thr Gly Ile Lys Gly Gln Val Val Ala Leu Asn Thr Leu Val Asn
 192 245 250 255
 193 Gly Thr Asn Pro Asn Gly Ser Thr Val Glu Glu Arg Gly Leu Thr
 194 260 265 270
 195 Asn Ser Ile Lys Ala Asn Glu Thr Asn Ile Ala Ser Val Thr Gln
 196 275 280 285
 197 Glu Val Asn Thr Ala Lys Gly Asn Ile Ser Ser Leu Gln Gly Asp
 198 290 295 300
 199 Val Gln Ala Leu Gln Glu Ala Gly Tyr Ile Pro Glu Ala Pro Arg
 200 305 310 315
 201 Asp Gly Gln Ala Tyr Val Arg Lys Asp Gly Glu Trp Val Leu Leu
 202 320 325 330
 203 Ser Thr Phe Leu Ser Pro Ala Gly Gly Gly Ser Gly Gly Gly
 204 335 340 345
 205 Gly Ser Gly Gly Gly Gly Ser Arg Gly Ser His His His His His
 206 350 355 360
 207 His
 208 361
 210 <210> SEQ ID NO: 14

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/612,852

DATE: 05/21/2001

TIME: 11:54:00

Input Set : A:\Pto.amc

Output Set: N:\CRF3\05212001\I612852.raw

211 <211> LENGTH: 9

212 <212> TYPE: PRT

213 <213> ORGANISM: Unknown

W--> 214 <220> FEATURE:

215 <221> NAME/KEY: DOMAIN

216 <223> OTHER INFORMATION: a peptide ligand containing the RGD motif

W--> 217 <400> SEQUENCE: 14

218 Cys Asp Cys Arg Gly Asp Cys Cys Phe Cys

219 5 9

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/612,852

DATE: 05/21/2001
TIME: 11:54:01

Input Set : A:\Pto.amc
Output Set: N:\CRF3\05212001\I612852.raw

L:8 M:283 W: Missing Blank Line separator, <130> field identifier
L:9 M:282 W: Numeric Field Identifier Missing, <140> CURRENT APPLICATION NUMBER: is Added.
L:14 M:283 W: Missing Blank Line separator, <160> field identifier
L:20 M:283 W: Missing Blank Line separator, <220> field identifier
L:25 M:283 W: Missing Blank Line separator, <400> field identifier
L:32 M:283 W: Missing Blank Line separator, <220> field identifier
L:37 M:283 W: Missing Blank Line separator, <400> field identifier
L:44 M:283 W: Missing Blank Line separator, <220> field identifier
L:45 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:48 M:283 W: Missing Blank Line separator, <400> field identifier
L:55 M:283 W: Missing Blank Line separator, <220> field identifier
L:56 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4
L:59 M:283 W: Missing Blank Line separator, <400> field identifier
L:67 M:283 W: Missing Blank Line separator, <220> field identifier
L:68 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5
L:70 M:283 W: Missing Blank Line separator, <400> field identifier
L:78 M:283 W: Missing Blank Line separator, <220> field identifier
L:79 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:81 M:283 W: Missing Blank Line separator, <400> field identifier
L:89 M:283 W: Missing Blank Line separator, <220> field identifier
L:90 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:92 M:283 W: Missing Blank Line separator, <400> field identifier
L:99 M:283 W: Missing Blank Line separator, <220> field identifier
L:100 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8
L:102 M:283 W: Missing Blank Line separator, <400> field identifier
L:109 M:283 W: Missing Blank Line separator, <220> field identifier
L:112 M:283 W: Missing Blank Line separator, <400> field identifier
L:119 M:283 W: Missing Blank Line separator, <220> field identifier
L:122 M:283 W: Missing Blank Line separator, <400> field identifier
L:129 M:283 W: Missing Blank Line separator, <220> field identifier
L:133 M:283 W: Missing Blank Line separator, <400> field identifier
L:141 M:283 W: Missing Blank Line separator, <220> field identifier
L:145 M:283 W: Missing Blank Line separator, <400> field identifier
L:155 M:283 W: Missing Blank Line separator, <220> field identifier
L:158 M:283 W: Missing Blank Line separator, <400> field identifier
L:214 M:283 W: Missing Blank Line separator, <220> field identifier
L:217 M:283 W: Missing Blank Line separator, <400> field identifier